



# SAFETY DATA SHEET

**MATERION**

## 1. Product and company identification

Name of the chemical Iron Product

Other means of identification  
SDS number 130

Recommended use of the chemical and restrictions on use  
Recommended use Not available.  
Recommended restrictions None known.

Manufacturer/Importer/Supplier/  
Distributor information Materion Advanced Materials Group

Address 42 Mt. Ebo Road South  
Brewster NY 10509  
United States

Telephone 1+845.279.0900

E-mail Not available.

Contact person Not available.

Emergency telephone number Chemtrec 1+703.527.3887

## 2. Hazards identification

Hazard classification  
Physical hazards Not classified.  
Health hazards Not classified.  
Environmental hazards Not classified.

Label elements  
Symbols None.  
Signal word None.

Hazard statement None.

Precautionary statement  
Prevention Not available.  
Response Not available.  
Storage Not available.  
Disposal Not available.

Other hazards None known.

Supplemental information None.

## 3. Composition/information on ingredients

Substance

Chemical properties	CAS Number	Concentration (%)
Iron	7439-89-6	99 - 100

## 4. First aid measures

First aid measures for different exposure routes

Inhalation Not available.  
Skin contact Not available.  
Eye contact Not available.  
Ingestion Not available.

Most important symptoms and effects Not available.

Personal protection for first-aid responders Not available.

Notes to physician Not available.

## 5. Fire-fighting measures

Extinguishing media Not available.

Extinguishing media to avoid None.

Specific hazards during fire fighting None.

Special fire fighting procedures None.

Protection of fire-fighters None.

## 6. Accidental release measures

Personal precautions Not available.

Environmental precautions Not available.

Spill cleanup methods Not available.

## 7. Handling and storage

Handling Not available.

Storage Not available.

## 8. Exposure controls/personal protection

### Exposure limits

No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Not available.

### Individual protection measures, such as personal protective equipment

Eye/face protection Not available.

#### Skin protection

Hand protection Not available.

Other Not available.

Respiratory protection Not available.

Thermal hazards Not available.

## 9. Physical and chemical properties

### Appearance

Physical state Solid.

Form Not available.

Color Not available.

Odor Not available.

Odor threshold Not available.

Melting point/freezing point 2800.4 °F (1538 °C)

pH Not available.

Boiling point, initial boiling point, and boiling range 5181.8 °F (2861 °C)

Flammability (solid, gas) Not available.

Flash point Not available.

Decomposition temperature Not available.

Auto-ignition temperature Not available.

### Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 0.0000001 kPa (77 °F (25 °C))
Vapor density	Not available.
Density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Evaporation rate	Not available.
Other data	
Molecular formula	Fe
Molecular weight	55.85 g/mol

## 10. Stability and reactivity

Stability	Not available.
Possibility of hazardous reactions	Not available.
Conditions to avoid	None.
Incompatible materials	None.
Hazardous decomposition products	None.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Ingestion	Not available.

Symptoms Not available.

### Information on toxicological effects

Acute toxicity	Not available.
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitization	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not available.
Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.
Chronic effects	Not available.

## 12. Ecological information

### Ecotoxicity

Product	Species	Test Results
Iron Product		
Aquatic		
Fish	LC50 Channel catfish ( <i>Ictalurus punctatus</i> )	> 500 mg/l, 96 hours

Persistence and degradability Not available.

Bioaccumulation	Not available.
Mobility in soil	Not available.
Other hazardous effects	Not available.

### 13. Disposal considerations

Disposal instructions	Not available.
Residual waste	Not available.
Contaminated packaging	Not available.
Local disposal regulations	Not available.

### 14. Transport information

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

### 15. Regulatory information

#### Applicable regulations

##### Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

Not listed.

##### Priority Management Chemical List (Regulations on Handling Priority Managed Chemicals), as amended

Not listed.

##### Toxic Chemical Substances (TCS) List (EPA Toxic Substances Notice No. 0960095331E, Tables 1-3, Dec. 17, 2007, as amended)

Not listed.

##### Hazardous Substances and Flammable Pressurized Gases Establishment Standards and Safety Control Regulations

Iron (CAS 7439-89-6)

Class 2: Flammable Solids

#### International regulations

##### Stockholm Convention

Not applicable.

##### Rotterdam Convention

Not applicable.

##### Montreal Protocol

Not applicable.

##### Kyoto protocol

Not applicable.

##### Basel Convention

Not applicable.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

References	Not available.
Issued by	Not available.
Prepared by	Not available.
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